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Water Supply Outlook For Wyoming



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

STATE ENGINEER of WYOMING

AS OF
APR. 1, 1980

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: THE SNOTEL PROJECT CENTRAL COMPUTER FACILITIES IN PORTLAND, OREGON. THE TERMINAL, PRINTER, COMPUTER AND TAPE DRIVES HAVE NOT COMPLETELY REPLACED THE SNOW SAMPLING TUBES SEEN IN THE FOREGROUND.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR WYOMING

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by
NORMAN A. BERG
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C



Released by
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STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
CASPER, WYOMING

In Cooperation with
GEORGE L. CHRISTOPULOS
STATE ENGINEER
STATE OF WYOMING



Report prepared by
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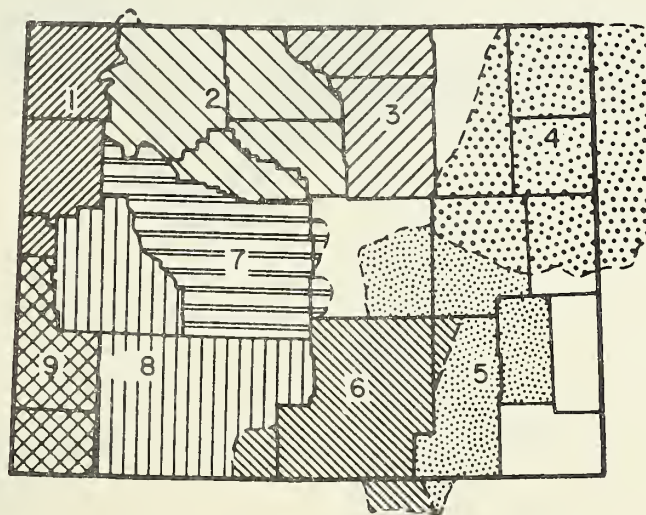
Water Supply Outlook by Major Watershed Areas

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- Area 2 Bighorn Basin
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Map and Index of Wyoming Snow Measuring Sites

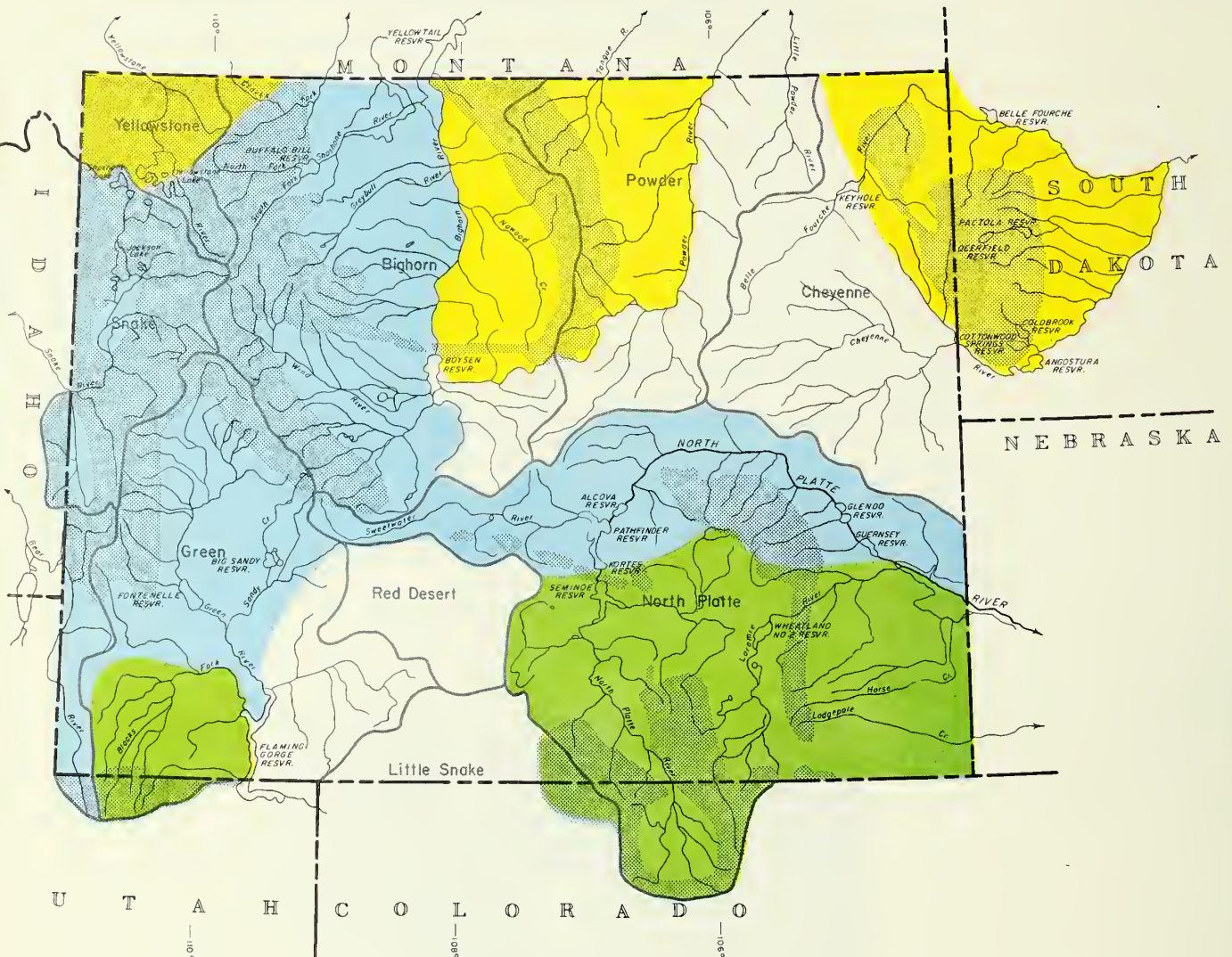


WATERSHED AREA LOCATIONS

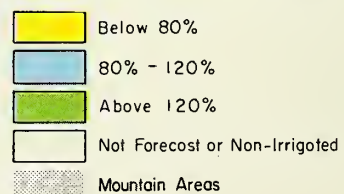
PROSPECTIVE WATER SUPPLIES FOR WYOMING SPRING AND SUMMER PERIOD

April 1, 1980

50 0 50 MILES
SCALE 1:4,250,000



FORECAST STREAM FLOW
In Percent of 1963-77, 15 Year Average



WYOMING SUMMARY

as of
APRIL 1, 1980

* * * * *
* *Southern Wyoming snowpacks con-* *
* *tinue to promise excellent sum-* *
* *mer streamflows. Some other* *
* *forecasts have improved while* *
* *the extreme northwest and* *
* *northeast are still well be-* *
* *low normal.* *
* * * * *

SNOWPACK

A statewide increase of one percent, compared to normal, is noted. Already heavy snowpacks in the North Platte basin remain at 20 to 30 percent above normal. Even higher figures prevail in extreme southwest Wyoming. Significant snowpack increases of about 10 percent have occurred across many northern Wyoming drainages. The Snake River is now only five percent below normal. Modest snowpack improvements have not changed below normal figures for extreme northwestern Wyoming (23 percent below) and the Black Hills area (30 percent below normal).

PRECIPITATION

Low elevation precipitation for March was highlighted by 150 to 300 percent of normal amounts over most of southern Wyoming, especially in the Laramie Range. Significant snowfall was noted just east of Yellowstone National Park, while the remainder of the Bighorn Basin and southwestern Wyoming received less than normal.

Southeastern Wyoming has been buried under snow all winter. Seasonal totals of 200 to 300 percent of normal prevail in this area. Southwestern Wyoming is also well above normal. Slightly above normal March precipitation in the northern half of the state has pulled most of these seasonal totals up to within 10 to 15 percent of normal.

....continued next page



STREAMFLOW

Volume forecasts for this spring and summer are excellent in southern Wyoming drainages. The North Platte remains most significant at 26 percent above normal. The Black's Fork in southwestern Wyoming is even higher at 35 percent above normal. Big Sandy and Little Popo Agie are also about 20 percent above. Other forecasts across the state have generally improved about 10 percent during March, but most are still below normal. Northern Yellowstone Park and Black Hills drainages will be well below normal.

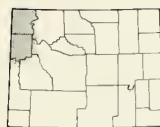
RESERVOIR STORAGE

Wyoming's 12 largest reservoirs are presently storing 11 percent above normal amounts. This is 62 percent of the usable capacity. The North Platte reservoir system is 23 percent higher than usual.

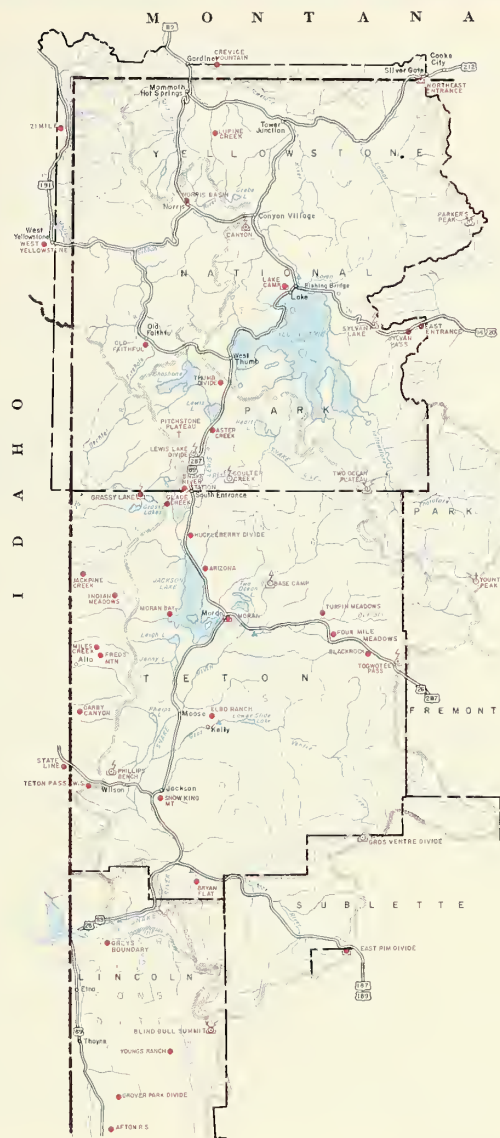
Forecasts prepared for this bulletin represent cooperative efforts of the Soil Conservation Service and the National Weather Service in an effort to provide the best possible service to water users and managers.

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS IN WYOMING

APRIL 1, 1980



LOCATION MAP



YOUR WATER SUPPLY

SNOWPACKS HAVE IMPROVED ABOUT 10 PERCENT WITH HEAVY MARCH SNOWFALLS. INFLOW TO PALISADES RESERVOIR IS FORECAST AT 87% OF NORMAL. YELLOWSTONE RIVER REMAINS LOWEST AT 76%. RESERVOIR STORAGE IS ABOVE NORMAL FOR MARCH 1 EXCEPT JACKSON LAKE, WHICH IS 91% OF NORMAL.

SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year**	Average +
Yellowstone River at Yellowstone Lake Outlet	650	76	Apr-Sept	636	860
SNAKE River near Moran (1)	780	86	Apr-Sept	751	903
SNAKE River above Palisades near Alpine (1)	2350	85	Apr-Sept	2272	2755
SNAKE River at Heise (2)	3650	86	Apr-Sept	3690	4247
Pacific Creek at Moran	153	84	Apr-Sept	-	182*
Greys River above Palisades	340	84	Apr-Sept	323	403
Salt River above Palisades near Etna	330	81	Apr-Sept	280	405
Palisades Reservoir Inflow	3350	87	Apr-Sept	3174	3863
Swift Creek near Afton	40	85	May-Sept	38	47

(1) Observed flow plus change in storage in Jackson Lake.

(2) Observed flow plus change in storage in Jackson Lake and Palisades Reservoir.

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

* Average contains less than 15 years

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Madison (WY only)	3	77	77
Yellowstone (WY only)	12	97	89
SNAKE ab. Jackson Lake	12	91	95
Pacific Creek	3	90	85
Buffalo Creek	6	92	88
Gros Ventre River	3	88	86
Hoback River	7	90	94
Greys River	4	108	104
Salt River	5	115	110

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Grassy Lake	15.1	11.8	12.9	10.8
Jackson Lake	847.0	555.6	531.9	612.9
Palisades	1200.0	929.9	804.3	815.9

• 1963-1977 period.

UNITED STATES DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
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 CASPER, WYOMING 82601

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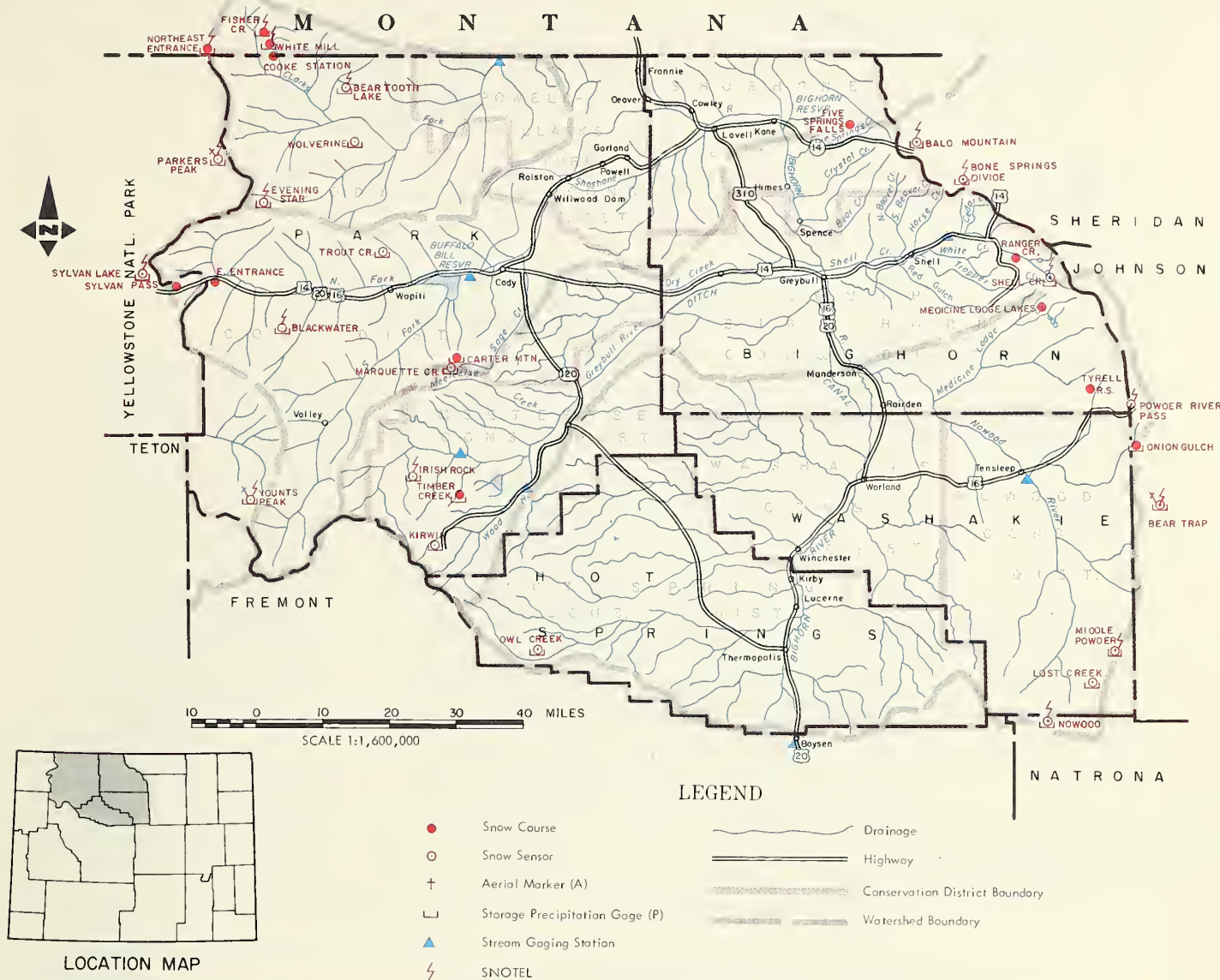
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APRIL 1, 1980



YOUR WATER SUPPLY

SNOWPACK CONDITIONS IMPROVED DURING MARCH IMPROVING THE WATER SUPPLY OUTLOOK. SNOW COVER RANGES FROM 68% ON THE NOWOOD TO 98% OF AVERAGE ON THE SHOSHONE RIVER DRAINAGE. STREAMFLOWS WITHIN THE BASIN WILL BE 37% BELOW NORMAL TO ONLY 1% BELOW FOR THE WIND BELOW BOYSEN. RESERVOIR STORAGE IS ABOVE NORMAL FOR THIS DATE.

BIGHORN BASIN

STREAMFLOW FORECASTS

BASIN, STREAM and/or FFORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year**	Average +
Wind River below Boysen (1)	1180	99	Apr-Sept	903	1193
Tensleep Creek near Tensleep	71	81	Apr-Sept	-	88
Medicine Lodge Creek near Hyattville	18.6	81	Apr-Sept	-	23
Shell Creek near Shell	61	77	Apr-Sept	78	79
Greybull River at Meeteetse	207	92	Apr-Sept	153	226
Shoshone River below Buffalo Bill Dam (2)	810	94	Apr-Sept	654	864
Clarks Fork near Belfry	525	82	Apr-Sept	-	644
South Fork Shoshone near Valley	250	88	Apr-Sept	201	284
Nowood River near Tensleep	45	63	May-Sept	-	71

(1) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to Wyoming Canal.

(2) Observed flow plus change in storage in Buffalo Bill Reservoir and diversion to Heart Mountain Canal.

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Clarks Fork	6	89	87
Shoshone	5	103	98
Nowood	4	87	80
Shell	4	75	68

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches) Last Yr	Ave +
Bald Mountain	3/29	60	15.3	20.8	25.2
Bear Trap Aerial	4/04	33	7.9	7.8	10.0
Bone Spring Divide	3/29	56	14.0	18.0	19.9
Carter Mountain	3/29	28	5.8	6.0	5.0
Cooke Station	3/28	58	16.8	21.2	21.3
East Entrance	4/01	36	13.3	9.3	9.6
Fisher Creek	3/28	100	35.3	36.0	38.7
Five Springs Falls	3/28	23	5.2	5.7	8.4
Marquette Creek	3/29	29	6.5	6.0	-
Medicine Lodge Lakes	4/04	40	9.9	13.6	12.1
Middle Powder	4/02	45	9.2	7.6	12.6
Northeast Entrance	3/31	32	7.6	10.1	10.4
Onion Gulch	4/04	32	7.8	10.2	9.6
Owl Creek	4/03	32	5.8	6.1	5.5
Powder River Pass	4/04	39	10.5	11.6	12.7
Ranger Creek	3/29	34	7.0	10.0	10.1
Shell Creek	3/29	44	11.0	14.5	14.8
Sylvan Pass	4/01	44	14.0	11.6	14.5
Timber Creek	4/01	29	4.2	5.8	3.1
Tyrell Ranger Station	4/04	30	7.4	8.7	9.1
White Mill	3/28	78	25.6	28.5	29.7
Wolverine	3/31	47	12.6	16.6	13.6
Younts Peak Aerial	3/29	54	18.4	18.4	23.6

+ 1963-1977 period

RESERVOIR STORAGE (Thousand Ac. Ft.)

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Boysen	549.9	294.1	324.9	278.4
Buffalo Bill	373.1	168.6	163.0	155.1
Bighorn	1356.0	843.2	887.3	796.2
Upper Sunshine	53.0	N.R.	49.0	-
Lower Sunshine	58.9	N.R.	21.0	-

UNITED STATES DEPARTMENT OF AGRICULTURE
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Worland, Wyoming 82401

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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE POWDER AND TONGUE WATERSHEDS IN WYOMING

APRIL 1, 1980



YOUR WATER SUPPLY

SOME IMPROVEMENT IN THE SNOWPACK WAS RECORDED, HOWEVER THE TONGUE RIVER IS STILL 27% BELOW NORMAL. WITH GOOD SNOWS AT THE HEAD OF CLEAR CREEK, STREAMFLOWS IN THAT AREA WILL BE ONLY 10-20% BELOW NORMAL. THE TONGUE RIVER NEAR DAYTON IS FORECAST AT 81% OF AVERAGE.

POWDER AND TONGUE RIVER WATERSHEDS

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
Tongue River near Dayton	104	81	Apr-Sept	78	129
Middle Fork Powder River near Barnum	17.3	79	Apr-Sept	11.3	22
North Fork Powder River near Hazelton	9.1	85	Apr-Sept	9.3	10.7
Clear Creek near Buffalo	35	90	Apr-Sept	44	39
Rock Creek near Buffalo	22	85	Apr-Sept	17	26
Piney Creek at Kearny	45	79	Apr-Sept	34	57

†† Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.
 * Less than 15 years of record.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Tongue River	9	80	73
Goose Creek	3	79	73
Clear Creek	3	104	100
Crazy Woman Creek	3	87	92
Powder River	6	101	90

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Last Yr.	Ave.†
Bald Mountain	3/29	60	15.3	20.8	25.2
Bear Trap Aerial	4/04	33	7.9	7.8	10.0
Big Goose	3/29	32	7.0	7.3	8.9
Bone Spring Divide	3/29	56	14.0	18.0	19.9
Burgess Ranger Station	3/29	31	7.2	8.4	9.3
Cloud Peak Aerial	4/04	60	12.5	9.2	12.4
Dome Lake	3/29	36	7.9	11.1	10.8
Five Springs Falls	3/28	23	5.2	5.7	8.4
Geneva Pass Aerial	3/29	54	11.9	14.0	17.3
Middle Powder	4/02	45	9.2	7.6	12.6
Muddy Creek Guard Station	4/04	31	6.0	6.0	4.2
North Tongue	3/29	46	11.4	14.2	14.9
Onion Gulch	4/04	32	7.8	10.2	9.6
Powder River Pass	4/04	39	10.5	11.6	12.7
Sawmill Divide	3/29	44	10.1	14.0	-
Shell Creek	3/29	44	11.0	14.5	14.8
Soldier Park	4/04	41	7.3	5.9	6.4
Sour Dough	4/04	45	8.3	7.6	7.1
Steamboat Point	3/29	32	7.6	9.2	9.4
Sucker Creek	3/29	37	9.3	11.1	14.6
Woodrock Guard Station	3/29	36	8.2	10.2	11.6

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
- No Reservoir Data -				

A - Aerial stadia marker. Water content estimated. † 1963-1977 period

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 SOIL CONSERVATION SERVICE
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WATER SUPPLY OUTLOOK

FOR THE CONSERVATION DISTRICTS IN THE BELLE FOURCHE AND CHEYENNE RIVER WATERSHEDS IN WYOMING AND SOUTH DAKOTA

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
WATER RESOURCES DIVISION

LEGEND

APRIL 1, 1980

- Snow Course
- Snow Sensor
- † Aerial Marker (A)
- ⌈ Storage Precipitation Gage (P)
- ▲ Stream Gaging Station
- Drainage
- == Highway
- - - Conservation District Boundary
- - - Watershed Boundary

10 0 10 20 30 40 MILES
SCALE 1:1,000,000



LOCATION MAP



YOUR WATER SUPPLY

A WELL BELOW NORMAL SNOWPACK IN THIS AREA WILL LEAD TO BELOW AVERAGE RUNOFF VOLUMES LATER IN THE SPRING. RESERVOIR STORAGE CONTINUES TO BE NORMAL EXCEPT IN SHADEHILL WHICH IS 25% BELOW AVERAGE.

BELLE FOURCHE AND CHEYENNE RIVER WATERSHEDS

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR		,PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
- No forecasts for this area -					

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Belle Fourche	3	97	70

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches) Last Yr.	Ave. +
Bearlodge Divide	4/02	3	0.6	2.0	3.3
Mallo Pillow	3/30	-	7.7	8.4	-
Mount Tom Pillow	4/01	-	0.0	6.1	-
Reuter Canyon	4/02	37	9.2	9.0	10.2
Sweetwater Mtn. Pillow	3/30	-	5.0	7.6	-
Upper Spearfish	3/28	25	5.6	6.6	8.3
Warren Peak	4/02	38	7.4	6.8	11.1

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Keyhole	190.4	139.6	158.6	125.1
Belle Fourche	185.2	108.5	163.3	141.6
Angostura	86.2	85.8	85.5	71.8
Deerfield	15.1	15.1	15.0	14.5
Pactola	55.0	53.6	53.6	51.2
Shadehill	81.5	46.0	62.9	61.0

+ 1963-1977 period

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
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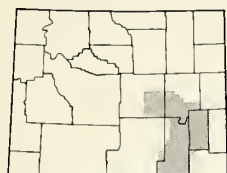
WATER SUPPLY OUTLOOK

FOR THE CONSERVATION DISTRICTS IN THE

LOWER NORTH PLATTE RIVER WATERSHED IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE, 100 CONSERVATION DISTRICTS

APRIL 1, 1980

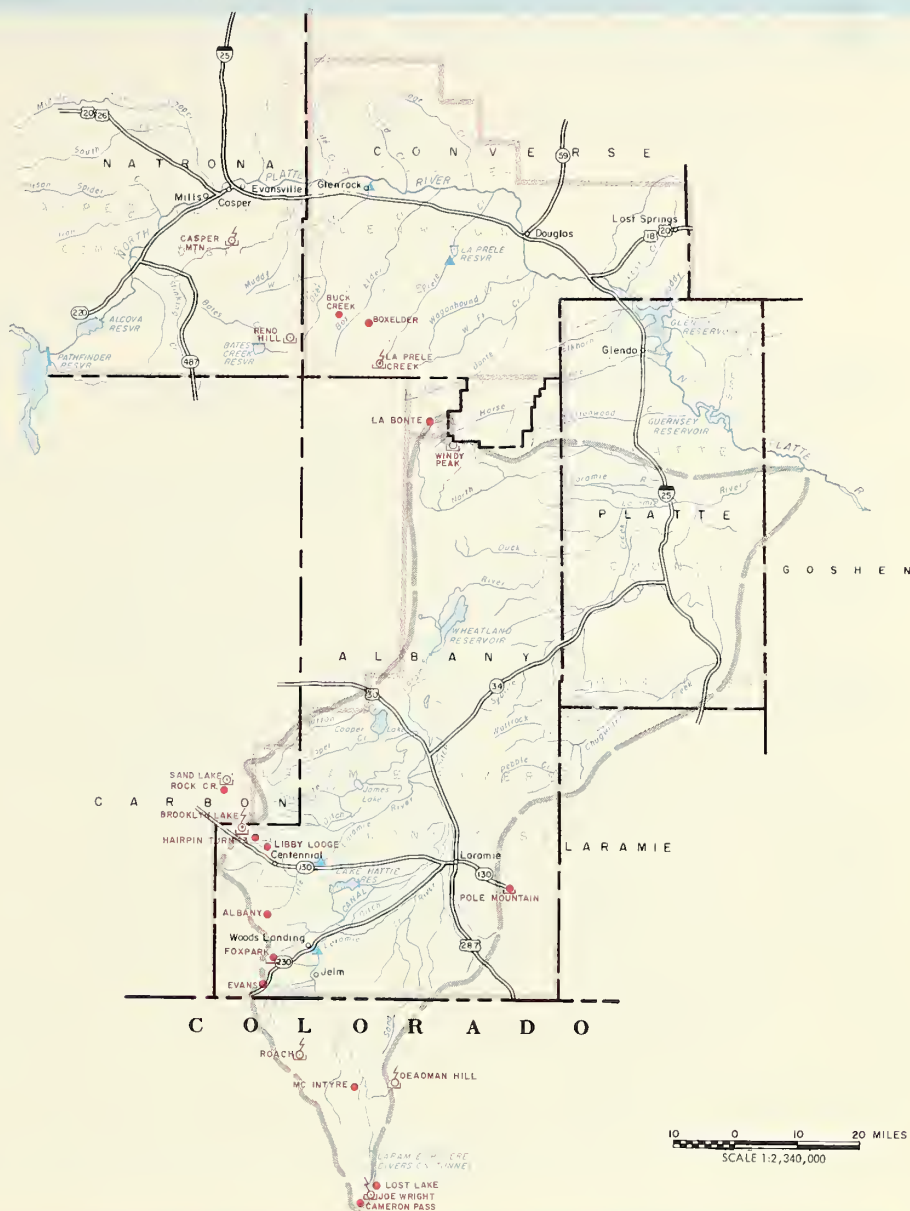


LOCATION MAP



LEGEND

- SNOTEL
- Snow Course
- Snow Sensor
- Storage Precipitation Gage (P)
- Stream Gaging Station
- Drainage
- Highway
- Conservation District Boundary
- Watershed Boundary



YOUR WATER SUPPLY

ABOVE NORMAL SNOWPACK LEVELS WILL HELP PRODUCE ABOVE AVERAGE STREAMFLOW VOLUMES. THE NORTH PLATTE RIVER NEAR SINCLAIR IS FORECAST AT 30% ABOVE NORMAL. STORAGE IN THE NORTH PLATTE SYSTEM RESERVOIRS IS ABOVE AVERAGE.

LOWER NORTH PLATTE RIVER WATERSHED

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
North Platte River near Sinclair	884	130	Apr-Sept	853	670
Deer Creek at Glenrock	50	100	Mar-July	13.7	50
LaPrele Creek near Douglas (Ab. Reservoir)	35	117	Apr-July	8.8	30
Laramie River & Pioneer Canal near Woods (1)	155	124	Apr-Sept	160	125
Little Laramie River near Filmore	75	121	Apr-Sept	94	62

(1) Observed flow plus transbasin diversions from North Platte River Basin to Cache La Poudre River Basin in Colorado.
 ** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper Laramie	10	101	127
Little Laramie	4	93	119
Laramie River	15	99	126
North Platte ab.			
Laramie River	19	103	122
Deer & LaPrele Creeks	4	118	109
North Platte in WY	27	102	123

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Seminole	1017.3	361.7	340.1	358.2
Pathfinder	1015.9	857.3	731.7	595.5
Alcova	30.7	3.8	2.8	6.1
Glendo	783.7	496.5	458.7	424.8
Guernsey	45.2	13.9	11.0	24.6
Wheatland #2	98.9	57.8	52.0	50.8

PROJECT WATER OWNERSHIP

North Platte Project	1016.1	767.9	762.8	-
Kendrick Project	1201.6	842.2	675.2	-
Glendo Project Users	454.3	165.8	148.3	-

- e - estimated

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches) Last Yr.	Ave †
Albany	3/27	58	19.2	19.1	14.9
Boxelder	3/30	43	9.8	7.1	8.3
Brooklyn Lake	3/27	71	25.2	26.2	22.5
Buck Creek	3/30	49	10.5	10.0	13.3
Cameron Pass	3/28	84	28.5	30.9	28.2
Casper Mountain	4/01	59	15.8	13.5	15.1
Deadman Hill	3/27	59	19.3	19.3	15.5
Evans	3/27	51	15.2	15.2	11.4
Foxpark	3/28	42	10.5	10.5	6.7
Hairpin Turn	3/27	60	21.1	23.7	17.7
Joe Wright	3/28	86	27.7	25.6	24.4
LaBonte	3/30	35	9.8	8.4	5.5
Libby Lodge	3/27	43	14.0	16.1	11.6
Lost Lake	3/28	50	15.3	14.6	11.1
McIntyre	3/27	45	14.0	15.0	10.6
Pole Mountain	3/28	51	13.5	10.3	7.3
Roach	3/27	72	24.0	24.7	18.2
Rock Creek	- Delayed	-	-	28.4	28.3

+ 1963-1977 period.

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FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE UPPER NORTH PLATTE AND LITTLE SNAKE RIVER BASINS IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
NORTH PLATTE, WYOMING

APRIL 1, 1980



YOUR WATER SUPPLY

MARCH STORMS HELPED SUSTAIN THE ABOVE AVERAGE SNOWPACK THROUGHOUT THIS AREA. SUMMER STREAMFLOWS WILL BE 22 TO 30% ABOVE NORMAL. STORAGE IN SEMINOE IS AVERAGE AS OF APRIL 1.

UPPER NORTH PLATTE RIVER AND LITTLE SNAKE RIVER BASINS STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
North Platte River near Northgate	300	126	Apr-Sept	376	238
North Platte River near Sinclair	884	130	Apr-Sept	853	680
Encampment River near Encampment	185	122	Apr-Sept	209	152
Rock Creek near Arlington	72	124	Apr-Sept	63	58
Little Snake near Dixon	395	123	Apr-Sept	349	320
Little Snake near Slater, Colo.	195	127	Apr-Sept	186	154

** Measured flow for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper North Platte	15	102	124
Encampment	2	93	122
Brush Creek	3	126	130
N. Platte ab. Sinclair	16	101	123
N. Platte ab Laramie R.	19	103	122
Little Snake River	2	94	123
N. Platte in Wyoming	27	102	123

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Seminole	1017.3	361.7	340.1	358.2

SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR		PAST REC.	
		Snow Depth (In.)	Water Cont. (In.)	Last Yr.	Ave †
Albany	3/27	58	19.2	19.1	14.9
Battle Mountain	-	Delayed	-	12.8	-
Brooklyn Lake	3/27	71	25.2	26.2	22.5
Butter Hill	3/25	56	17.5	18.4	-
Cameron Pass	3/28	84	28.5	30.9	28.2
Deep Creek	-	Delayed	-	18.0	-
Deep Lake	-	Delayed	-	41.0	40.9
Elkhorn	3/25	84	28.5	-	-
Elk River	3/25	66	22.8	23.8	17.3
Evans	3/27	51	15.2	15.2	11.4
Foxpark	3/28	42	10.5	10.5	6.7
Hairpin Turn	3/27	60	21.1	23.7	17.7
Haskins Creek	-	Delayed	-	36.0	-
LaBonte	3/30	35	9.8	8.4	5.5
Libby Lodge	3/27	43	14.0	16.1	11.6
Moss Lake	-	Delayed	-	26.6	25.7
North Barrett Creek	3/27	80	26.0	21.6	21.4
North French Creek Pillow	3/27	-	33.2	25.3	23.5
Old Battle	-	Delayed	-	43.6	34.2
Purgatory Gulch	-	Delayed	-	-	11.7
Rock Creek	-	Delayed	-	28.4	28.3
Ryan Park	3/27	45	14.4	11.4	11.9
Sandstone Ranger Station	-	Delayed	-	18.4	-
Webber Spring	-	Delayed	-	29.6	21.5
Whiskey Creek	3/26	93	34.3	-	-

+ 1963-1977 period

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FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE WIND RIVER BASIN AND SWEETWATER RIVER WATERSHED IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
WATER RESOURCES DIVISION

APRIL 1, 1980



YOUR WATER SUPPLY

SNOWPACK CONDITIONS ON THE UPPER REACHES OF THE RIVER IMPROVED SLIGHTLY OVER THE MONTH. ELSEWHERE IN THE BASIN, CONDITIONS REMAIN ABOVE AVERAGE. STREAMFLOWS WILL RANGE FROM 12% BELOW AVERAGE ON THE UPPER WIND TO 17% ABOVE AVERAGE ON THE LITTLE POPO AGIE. BOYSEN RESERVOIR IS STORING ABOVE AVERAGE AMOUNTS OF WATER.

WIND RIVER BASIN AND SWEETWATER RIVER WATERSHED STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
BASIN, STREAM and/or FORECAST POINT					
Wind River near Dubois	97	88	Apr-Sept	85	110
Wind River at Riverton (1)	760	109	Apr-Sept	491	695
Wind River below Boysen (2)	1230	103	Apr-Sept	903	1193
Bull Lake Creek near Lenore (3)	212	112	Apr-Sept	145	189
Little Popo Agie near Lander	62	117	Apr-Sept	45	53
<i>(1) Observed flow plus change in storage in Bull Lake and Pilot Butte Reservoirs and diversion to Wyoming Canal.</i>					
<i>(2) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to</i>					

(1) Observed flow plus change in storage in Bull Lake and Pilot Butte Reservoirs and diversion to Wyoming Canal.

(2) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to Wyoming Canal.

(3) Observed flow plus change in storage in Bull Lake

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper Wind River	6	103	96
Popo Agie	4	126	123
Wind above Boysen	15	111	104
Sweetwater River	3	128	132

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Last Yr.	Ave. †
Big Warm Springs	3/29	23	5.4	5.8	6.9
Blue Ridge	3/25	57	17.6	11.3	13.1
Burroughs Creek	3/30	49	14.5	14.5	14.7
Castle Creek	3/31	19	4.1	5.9	-
Dinwoody	4/03	55	10.7	11.5	12.3
DuNoir	3/29	32	6.5	9.0	9.0
Geyser Creek	3/29	27	8.3	7.3	7.8
Grannier Meadows	3/25	62	19.8	15.8	14.9
Hobbs Park	4/03	79	17.4	11.6	14.2
Larsen Creek	4/03	55	17.3	13.5	12.5
Little Warm	3/29	53	15.6	12.9	16.1
Middle Fork	3/25	39	8.4	7.1	7.2
Owl Creek	4/03	32	5.8	6.1	5.5
Sawmill Glade	3/25	40	10.8	9.8	9.4
Sheridan Ranger Station	3/29	25	7.2	7.6	7.8
South Pass	3/25	62	19.3	14.6	15.2
St. Lawrence R.S.	4/03	54	10.3	7.2	7.5
T-Cross Ranch	3/30	33	9.2	8.2	7.2
Togwotee Pass	3/28	79	26.7	29.0	30.9
Townsend Creek	3/25	42	9.0	7.0	-
Younts Peak Aerial	3/29	54	18.4	18.4	23.6

+ 1963-1977 period

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Bull Lake	151.8	78.6	106.6	87.0
Pilot Butte	31.6	11.8	18.1	20.1
Boysen	549.9	294.1	324.9	278.4

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FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATERSHED AREA 8



SOME IMPROVEMENT WAS SEEN IN SNOWPACK CONDITIONS OVER THE MONTH, AND IS NOW AT NEAR NORMAL LEVELS. THE MAIN STEM GREEN RIVER WILL HAVE FLOWS 20% BELOW NORMAL WHILE THE BIG SANDY IS EXPECTED TO PRODUCE 20% ABOVE NORMAL RUNOFF. RESERVOIR STORAGE IS AT NORMAL APRIL 1 LEVELS.

UPPER GREEN RIVER BASIN IN WYOMING

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
Green River at Warren Bridge	285	85	Apr-Sept	237	336
Green River near LaBarge	850	85	Apr-Sept	677	999
Green River near Green River (1)	980	90	Apr-Sept	699	1094
Flaming Gorge Inflow	1450	112	Apr-July	-	1294
LaBarge Creek at LaBarge Meadows	8.5	97	Apr-Sept	6.8	8.8
Big Sandy River near Big Sandy	75	119	Apr-Sept	50	63

(1) Observed flow plus change in storage in Fontenelle Reservoir.

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper Green, East	5	94	99
Upper Green, West	6	122	111
Big Sandy	2	95	117

SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR		PAST REC.	
		Snow Depth (in.)	Water Cont. (in.)	Water Content (inches) Last Yr.	Ave. †
Big Sandy Opening	4/03	59	17.6	18.1	14.2
Blind Bull Summit Aerial	4/02	99	34.6	25.6	28.3
Cottonwood Lake Aerial	4/02	66	22.4	17.0	17.8
East Rim Divide	3/27	48	14.6	14.7	13.9
Elkhart Park G.S.	4/03	47	12.8	14.0	14.5
Grannier Meadows	3/25	62	19.8	15.8	14.9
Gros Ventre Summit	3/27	42	9.4	11.0	12.7
Kendall Ranger Station	3/27	41	12.3	13.6	13.1
Larsen Creek	4/03	55	17.3	13.5	12.5
Loomis Park	3/27	58	19.2	19.7	18.7
New Fork Lake	3/27	38	10.8	11.8	11.8
Pocket Creek	4/03	50	13.7	15.0	12.5
Poison Meadows	4/02	89	29.6	26.2	30.2
Rowdy Creek	3/31	67	22.0	22.4	23.3
Snider Basin R.S.	4/02	59	18.8	17.4	17.4
South Pass	3/25	62	19.3	14.6	15.2
Spring Creek Div. Pillow	4/02	-	25.9	20.8	-
Triple Peaks	3/31	83	29.6	24.8	26.9

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Eden	11.8	N.R.	N.R.	3.3
Big Sandy	38.3	15.3	16.8	20.9
Fontenelle	344.8	185.9	198.7	180.1
Flaming Gorge	3749.0	2245.0	2471.6	-

+ 1963-1977 period

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FIRST CLASS MAIL



"The Conservation of Water begins with the Snow Survey"

[illegible]

YOUR WATER SUPPLY

CONTINUED WELL ABOVE NORMAL SNOWPACK CONDITIONS
PREVAIL ON THE NORTH SLOPE OF THE UINTAHS. STREAMS
ON THE LOWER GREEN WILL HAVE WELL ABOVE NORMAL FLOWS,
AND THOSE ON THE BEAR RIVER NEAR NORMAL RUNOFF.
RESERVOIR STORAGE LEVELS ARE NEAR AVERAGE.

LOWER GREEN RIVER AND BEAR RIVER WATERSHEDS

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year**	Average †
LaBarge Creek at LaBarge Meadows	8.5	97	Apr-Sept	6.8	8.8
Green River near Green River (1)	980	90	Apr-Sept	699	1094
Hams Fork below Pole Creek, near Frontier	75	104	Apr-Sept	55	72
Blacks Fork near Millburne	124	135	Apr-July	80	92
Flaming Gorge Inflow	1450	112	Apr-July	-	1292
Smiths Fork near Border	125	104	Apr-Sept	90	120
Thomas Fork near State Line	38	109	Apr-Sept	24	35
Bear River at Utah-Wyoming State Line	132	116	Apr-July	93	114
Henry's Fork near Linwood, Utah	67	124	Apr-Sept	-	54

(1) Observed flow plus change in storage in Fontenelle Reservoir.

** Measured flow for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper Bear River	7	126	131
Smith & Thomas Forks	4	111	107

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Fontenelle	344.8	185.9	198.7	180.1*
Flaming Gorge	3749.0	2245.0	2471.6	-
Viva Naughton	42.4	22.9	30.4	29.2

*Less than 15 years

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
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SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR			PAST REC.	
		Snow Depth (In.)	Water Cont. (In.)		Water Content (Inches)	
					Last Yr.	Ave.†
Big Park	4/02	67	22.8		17.2	21.2
Black's Fork GS-East Fk.	3/24	44	13.6		11.7	9.0
Black's Fork Junction	3/24	47	15.1		11.0	9.2
Burts-Miller Ranch	3/24	30	9.3		5.3	6.1
CCC Camp	3/28	48	13.6		13.4	13.4
Hayden Fork	3/24	63	23.0		17.5	15.9
Hewinta Guard Station	-	No Report	-		12.0	9.4
Hickerson Park	3/25	44	14.6		5.7	5.9
Kelley Ranger Station	4/02	67	23.2		18.8	18.3
Monte Cristo	4/02	81	31.1		24.7	25.9
Poison Meadows	4/02	89	29.6		26.2	30.2
Salt River Summit	3/27	55	16.4		18.4	16.9
South Thomas Fork	4/02	54	16.6		16.6	17.1
Spirit Lake	3/25	65	19.1		18.0	12.1
Steel Creek Park	3/24	66	21.0		17.0	15.6
Stillwater Camp	3/24	49	15.7		10.7	11.3
Trial Lake	3/26	102	38.6		27.0	23.5

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S N O W C O U R S E D A T A

APRIL 1980

SNOW COURSE	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1963-77
AFTON RANGER STATION	3/27	12	3.2	.0	1.5
ALBANY	3/27	58	19.2	19.1	14.9
ARIZONA	3/26	62	20.1	20.9	19.9
ASTER CREEK	3/26	89	30.5	29.9	31.8
BALD MOUNTAIN	3/29	60	15.3	20.8	25.2
BASE CAMP	3/27	58	18.9	21.4	21.6
BATTLE MOUNTAIN		DELAYED		12.8	-
BEARLODGE DIVIDE	4/02	3	0.6	2.0	3.3*
BEAR TRAP AERIAL	4/04	33	7.9	7.8	10.0
BIG GOOSE	3/29	32	7.0	7.3	8.9
BIG PARK	4/02	67	22.8	17.2	21.2
BIG SANDY OPENING	4/03	59	17.6	18.1	14.2
BIG SANDY OPENING PILLOW	4/03	-	15.5	16.6	-
BIG WARM SPRINGS	3/29	23	5.4	5.8	6.9
BLACKROCK	3/28	63	20.8	21.8	22.3
BLACK'S FORK GS-EAST FK	3/24	44	13.6	11.7	9.0
BLACK'S FORK JUNCTION	3/24	47	15.1	11.0	9.2
BLIND BULL SUMMIT AERIAL	4/02	99	34.6	25.6	28.3
BLUE RIDGE	3/25	57	17.6	11.3	13.1
BONE SPRING DIVIDE	3/29	56	14.0	18.0	19.9
BOXELDER	3/30	43	9.8E	7.1	8.3
BROOKLYN LAKE	3/27	71	25.2	26.2	22.5
BROOKLYN LAKE PILLOW		NO REPORT		17.5	-
BRYAN FLAT	3/24	30	9.7	10.8	9.2
BUCK CREEK	3/30	49	10.5E	10.0	13.3*
BURGESS RANGER STATION	3/29	31	7.2	8.4	9.3
BURROUGHS CREEK	3/30	49	14.5	14.5	14.7
BURROUGHS CREEK PILLOW	3/30	-	12.3	13.7	-
BURTS-MILLER RANCH	3/24	30	9.3	5.3	6.1
BUTTER HILL	3/25	56	17.5	18.4	-
CAMERON PASS	3/28	84	28.5	30.9	28.2
CANYON	4/01	52	15.0	16.4	16.9
CANYON PILLOW		NO REPORT		16.3	-
CARTER MOUNTAIN	3/29	28	5.8	6.0	5.0
CASPER MOUNTAIN	4/01	59	15.8	13.5	15.1
CASPER MOUNTAIN PILLOW	4/01	-	16.9	11.8	-
CASTLE CREEK	3/31	19	4.1	5.9	-
CCC CAMP	3/28	48	13.6	13.4	13.4
CHAMBERS LAKE	3/28	42	13.4	13.2	9.0
CLOUD'S PEAK AERIAL	4/04	60	12.5	9.2	12.4
COLUMBINE LODGE	3/26	76	26.4	27.2	23.2
COOKE STATION	3/28	58	16.8	21.2	21.3*
COTTONWOOD LAKE AERIAL	4/02	66	22.4	17.0	17.8
COULTER CREEK	3/26	64	20.3	23.7	23.4

SNOW COURSE	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1963-77
CREVICE MOUNTAIN	3/27	36	8.9	12.4	11.5
DARBY CANYON	4/01	71	22.5	23.6	22.3
DEADMAN HILL	3/27	59	19.3	19.3	15.5
DEEP CREEK		DELAYED		18.0	-
DEEP LAKE		DELAYED		41.0	40.9*
DINWOODY	4/03	55	10.7	11.5	12.3
DINWOODY PILLOW		NO REPORT		13.7	-
DOVE LAKE	3/29	36	7.9	11.1	10.8
DU NOIR	3/29	32	6.5	9.0	9.0
EAST ENTRANCE	4/01	36	13.3	9.3	9.6
EAST RIM DIVIDE	3/27	48	14.6	14.7	13.9
ELBO RANCH	3/28	40	10.7	15.0	-
ELKHART PARK G.S.	4/03	47	12.8	14.0	14.5
ELKHORN	3/25	84	28.5	-	-
ELK RIVER	3/25	66	22.8	23.8	17.3
EVANS	3/27	51	15.2	15.2	11.4
FISHER CREEK	3/28	100	35.3	36.0	38.7*
FIVE SPRINGS FALLS	3/28	23	5.2	5.7	8.4
FOUR MILE MEADOWS	3/28	42	12.1	13.4	13.7
FOXPAK	3/28	42	10.5	10.5	6.7
FRED'S MOUNTAIN	3/28	70	23.8	23.8	20.7E
GENEVA PASS AERIAL	3/29	54	11.9	14.0	17.3
GEYSER CREEK	3/29	27	8.3	7.3	7.8
GLADE CREEK	3/26	69	23.3	26.7	23.6
GRANNIER MEADOWS	3/25	62	19.8	15.8	14.9
GRASSY LAKE	3/26	90	31.3	38.9	36.6
GREYS BOUNDARY	3/27	35	10.4	15.8	11.8
GROS VENTRE SUMMIT	3/27	42	9.4	11.0	12.7
GROS VENTRE SUMMIT PILLO	3/27	-	12.4	12.0	-
GROVER PARK DIVIDE	3/28	46	13.6	11.6	13.4
HAIRPIN TURN	3/27	60	21.1	23.7	17.7
HASKINS CREEK		DELAYED		36.0	-
HAYDEN FORK	3/24	63	23.0	17.5	15.9
HEWINTA GUARD STATION		NO REPORT		12.0	9.4
HICKERSON PARK	3/25	44	14.6	5.7	5.9*
HOBBS PARK	4/03	79	17.4E	11.6	14.2
HOBBS PARK PILLOW		NO REPORT		15.8	-
HUCKLEBERRY DIVIDE	3/26	63	20.8	25.9	22.1
INDIAN MEADOWS	3/31	100	35.8	36.8	37.4*
JACKPINE CREEK	3/31	62	24.2	20.6	23.0*
JOE WRIGHT	3/28	86	27.7	25.6	24.4
KELLY RANGER STATION	4/02	67	23.2	18.8	18.3
KELLY RANGER STA PILLOW	4/02	-	18.3	17.0	-
KENDALL RANGER STATION	3/27	41	12.3	13.6	13.1
LA BONTE	3/30	35	9.8	8.4	5.5
LAKE CAMP	4/01	38	11.5	10.5	10.1
LA PRELE PILLOW	3/21	45	11.2	-	-
LARSEN CREEK	4/03	55	17.3	13.5	12.5
LEWIS LAKE DIVIDE	3/26	111	41.6	40.7	43.2
LEWIS LAKE DIVIDE PILLOW	3/26	-	33.6	33.3	-

SNOW COURSE	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1963-77
LIBBY LODGE	3/27	43	14.0	16.1	11.6
LITTLE WARM	3/29	53	15.6	12.9	16.1
LITTLE WARM PILLOW	3/29	-	10.9	9.3	-
LOOMIS PARK	3/27	58	19.2	19.7	18.7
LOST LAKE	3/28	50	15.3	14.6	11.1
LUPINE CREEK	3/31	39	9.5	11.4	11.1
MALLO PILLOW	3/30	-	7.7	8.4	-
MARQUETTE CREEK	3/29	29	6.5	6.0	-
MCINTYRE	3/27	45	14.0	15.0	10.6
MEDICINE LODGE LAKES	4/04	40	9.9	13.6	12.1
MIDDLE FORK	3/25	39	8.4	7.1	7.2*
MIDDLE POWDER	4/02	45	9.2	7.6	12.6
MIDDLE POWDER PILLOW		NO REPORT		8.5	-
MILES CREEK		NO REPORT		14.2	14.1E
MONTE CRISTO	4/02	81	31.1	24.7	25.9
MORAN	3/27	40	12.8	14.9	13.3
MORAN BAY	3/27	64	22.0	25.7	22.5
MOSS LAKE		DELAYED		26.6	25.7*
MOUNT TOM PILLOW	4/01	-	0.0	6.1	-
MUDDY CREEK GUARD STATIO	4/04	31	6.0	6.0	4.2
NEW FORK LAKE	3/27	38	10.8	11.8	11.8
NORRIS BASIN	3/30	35	9.5	11.3	11.8
NORTH BARRETT CREEK	3/27	80	26.0	21.6	21.4
NORTHEAST ENTRANCE	3/31	32	7.6	10.1	10.4
NORTH FRENCH CREEK PILLO	3/27	-	33.2	25.3	23.5
NORTHGATE	3/27	37	9.9	8.0	6.2
NORTH TONGUE	3/29	46	11.4	14.2	14.9
OLD BATTLE		DELAYED		43.6	34.2
OLD BATTLE PILLOW		DELAYED		43.3	-
OLD FAITHFUL	3/31	55	15.8	16.6	-
ONION GULCH	4/04	32	7.8	10.2	9.6
OWL CREEK	4/03	32	5.8	6.1	5.5*
PARKER'S PEAK AERIAL	3/29	90	29.7	31.6	32.7*
PARK VIEW	3/27	42	10.8	12.7	9.1
PHILLIPS BENCH	3/24	75	26.0	33.0	30.6*
PHILLIPS BENCH PILLOW		NO REPORT		27.6	-
PITCHSTONE PLATEAU AERIA	3/29	169	60.8	66.0	56.7*
POCKET CREEK	4/03	50	13.7	15.0	12.5
POISON MEADOWS	4/02	89	29.6	26.2	30.2
POLE MOUNTAIN	3/28	51	13.5	10.3	7.3
POWDER RIVER PASS	4/04	39	10.5	11.6	12.7*
PURGATORY GULCH		DELAYED		-	11.7*
RABBIT EARS	3/26	96	29.4	28.8	25.1
RANGER CREEK	3/29	34	7.0	10.0	10.1
REUTER CANYON	4/02	37	9.2	9.0	10.2*
ROACH	3/27	72	24.0	24.7	18.2
ROCK CREEK		DELAYED		28.4	28.3
ROWDY CREEK	3/31	67	22.0	22.4	23.3
RYAN PARK	3/27	45	14.4	11.4	11.9
SALT RIVER SUMMIT	3/27	55	16.4	18.4	16.9

SNOW COURSE	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1963-77
SALT RIVER SUMMIT PILLOW	3/27	-	18.9	-	-
SANDSTONE RANGER STATION		DELAYED		18.4	-
SAWMILL DIVIDE	3/29	44	10.1	14.0	-
SAWMILL GLADE	3/25	40	10.8	9.8	9.4*
SHELL CREEK	3/29	44	11.0	14.5	14.8
SHERIDAN RANGER STATION	3/29	25	7.2	7.6	7.8
SNAKE RIVER STATION	3/26	64	20.3	23.7	21.6
SNIDER BASIN RANGER STA	4/02	59	18.8	17.4	17.4
SNOW KING MOUNTAIN	3/31	51	15.0	18.4	15.7
SOLDIER PARK	4/04	41	7.3	5.9	6.4
SOUR DOUGH	4/04	45	8.3	7.6	7.1
SOUTH BRUSH CREEK PILLOW	3/27	-	18.1	14.7	-
SOUTH PASS	3/25	62	19.3	14.6	15.2
SOUTH THOMAS FORK	4/02	54	16.6	16.6	17.1*
SPIRIT LAKE	3/25	65	19.1	18.0	12.1
SPRING CREEK DIVIDE PILL	4/02	-	25.9	20.8	-
STATE LINE	3/28	45	14.2	18.4	15.3
STEAMBOAT POINT	3/29	32	7.6	9.2	9.4
STEEL CREEK PARK	3/24	66	21.0	17.0	15.6
STILLWATER CAMP	3/24	49	15.7	10.7	11.3*
ST. LAWRENCE RANGER STA	4/03	54	10.3E	7.2	7.5
ST. LAWRENCE R.S. PILLOW	4/03	-	11.2	8.4	-
SUCKER CREEK	3/29	37	9.3	11.1	14.6
SWEETWATER MOUNTAIN PILL	3/30	-	5.0	7.6	-
SYLVAN PASS	4/01	44	14.0	11.6	14.5
T-CROSS RANCH	3/30	33	9.2	8.2	7.2
TETON PASS W.S.	3/24	65	20.7	30.4	27.7*
THUMB DIVIDE	3/26	66	20.7	20.3	22.1
TIMBER CREEK	4/01	29	4.2	5.8	3.1
TOGWOTEE PASS	3/28	79	26.7	29.0	30.9
TOGWOTEE PASS PILLOW	3/28	-	21.9	24.1	-
TOWNSEND CREEK	3/25	42	9.0	7.0	-
TRIAL LAKE	3/26	102	38.6	27.0	23.5
TRIPLE PEAKS	3/31	83	29.6	24.8	26.9
TURPIN MEADOWS	3/28	33	10.0	11.7	10.6
TWENTY-ONE MILE	4/02	44	12.8	18.6	19.6
TWO OCEAN PLATEAU AERIAL	3/29	75	26.0	27.2	32.3*
TYRELL RANGER STATION	4/04	30	7.4	8.7	9.1
UPPER SPEARFISH	3/28	25	5.6	6.6	8.3
WARREN PEAK	4/02	38	7.4	6.8	11.1*
WEBBER SPRING		DELAYED		29.6	21.5
WEBBER SPRING PILLOW		DELAYED		37.7	-
WEST YELLOWSTONE	4/01	39	9.5	14.3	12.8
WHISKEY CREEK	3/26	93	34.3	-	-
WHITE MILL	3/28	78	25.6	28.5	29.7*
WILLOW CREEK PASS	3/27	52	16.0	17.9	12.2
WOLVERINE	3/31	47	12.6	16.6	13.6*
WOOD ROCK GUARD STATION	3/29	36	8.2	10.2	11.6
YOUNG'S RANCH AERIAL	4/02	60	18.6	19.0	19.0*
YOUNTS PEAK AERIAL	3/29	54	18.4	18.4	23.6*

E ESTIMATED

* LESS THAN 15 YEARS

BASIC DATA SUPPLEMENT 2

PRECIPITATION (Inches) FOR MONTH OF MARCH

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precipitation	Last Year	Average [†]
Arrastre Lake	10280	- No Report -	-	4.40	-
Bald Mountain	9380	3/29	3.50	2.90	-
Battle Mountain	7440	- No Report -	-	-	-
Bearlodge Divide (Alva) (NWS)	4390	3/31	1.38	0.59	1.68
Big Sandy Opening	9080	4/03	2.50	1.50	2.19
Blind Bull Summit	8650	- No Report -	-	-	-
Bone Springs Divide	9350	- No Report -	-	2.30	-
Brooklyn Lake	10220	3/27	3.37	3.38	3.20
Burgess R.S.	7880	- No Report -	-	-	-
Burrroughs Creek	8750	3/30	3.50	1.75	-
Canyon	7940	- No Report -	-	1.25	-
Carter Mountain	7950	3/29	1.54	1.90	2.14*
Casper Mountain	7850	4/01	3.82	3.81	3.17
Dinwoody	10160	- No Report -	-	2.00	-
Dome Lake	8870	3/29	2.50	2.40	-
East Rim Divide	7930	- No Report -	-	0.00	1.87
Elkhart Park G. S.	9400	4/03	1.50	2.00	2.21*
Grassy Lake	7265	3/26	6.10	3.60	5.44
Gros Ventre Summit	8750	3/29	2.62	2.25	-
Grover Park Divide	7000	3/28	3.60	1.40	3.74*
Haskins Creek	8975	- No Report -	-	-	-
Hobbs Park	10100	4/03	4.25	2.75	-
Kelley Ranger Station	8180	4/02	4.25	5.75	3.09*
Lewis Lake Divide	7850	3/26	5.00	4.55	6.78*
Little Warm	9620	3/29	2.50	1.00	-
Loomis Park	8240	- No Report -	-	2.00	-
Louis Lake	8500	3/25	1.50	2.02	2.62*
Middle Powder	7760	- No Report -	-	2.00	-
Moran (NWS)	6500	3/31	2.29	0.84	2.14
North French Creek	10125	3/27	4.50	4.30	4.08*
Old Battle	9920	- No Report -	-	7.8e	4.82*
Onion Culch	8780	- No Report -	-	1.40e	2.63*
Owl Creek	8975	4/03	1.50	2.25	-
Phillips Bench	8200	3/24	3.75	3.70	-
Pole Mountain	8360	- No Report -	-	3.20	1.88*
Powder River Pass	9480	4/04	3.10	2.00	2.23
Salt River Summit	7700	3/27	3.30	1.57	2.98
Sandstone R.S.	8150	- No Report -	-	-	-
Shell Creek	9580	3/29	3.20	-	-
Snake River Station (NWS)	6920	3/31	3.53	1.35	2.79
Snider Basin	8060	4/02	3.00	1.40e	2.30
South Brush Creek	8440	3/27	2.75	2.50	-
Spring Creek Divide	9000	4/02	4.00	1.75	-
St. Lawrence R.S.	8960	4/03	4.25	-	-
Sucker Creek	8880	3/29	2.37	2.20	-
Sweetwater Mountain	5860	3/30	2.75	0.50	-
Sylvan Lake	7100	- No Report -	-	-	-
Timber Creek	7950	4/01	3.25	-	1.60*
Togwotee Pass	9580	3/28	3.20	3.10	4.40
Townsend Creek	8700	- No Report -	-	2.25	-
Warren Peak	6520	4/01	2.75	1.30e	1.02*
Webber Spring	9250	- No Report -	-	4.75	-
Wolverine	7650	3/31	3.50	1.50	-
* Less than 15 years e Estimated value (NWS) National Weather Service gage					

+ 1963-1977 period

M7-N-22029L

INDEX TO WYOMING SNOW COURSES AND DATA SITES

DRYAGE BASIN AND COURSE NAME	WATER NUMBER	ELEV.	LOC. - SEC.	TOP - LONG.	DATE CORRECTED	DRYAGE BASIN AND COURSE NAME	WATER NUMBER	ELEV.	LOC. - SEC.	TOP - LONG.	DATE CORRECTED
MISSOURI RIVER DRAINAGE											
Black Bear m	11E55	7950	27	15S	SE	Modison River	7E10	7560	29	56N	87W
Norris Basin	10E2	7500	4045		110942		7E12	7560	4044		107924
Old Faithful	10E18	7400	4027	11S	SE		7E13	8440	4041		107927
21 Mile m	11E6	7100	1	11S	SE						
West Yellowstone m	11E7	6700	34	13S	SE						
Yellowstone											
Canyon	10E3*	7940	4044		110930		7E14*	7900	3	45N	85W
Frederick m	9E5*	6900	4029	9S			7E36A*	9850	4024		107905
Frederick m	9E5*	6900	4029	9S			6E03*	7600	33	50N	84W
Lake Camp	10E4P	7780	4024		110950		6E04*	7600	33	50N	84W
Lupine Creek	10E1P	7380	4055		110924		6E2	7820	1	48N	88W
Northeast Entrance m	1007P	7400	33	14E			7E27P	8780	31	48N	85W
North Fork	10E18	7500	4044		110934		6E1	8400	4021		107902
Pitchstone Plateau	10E18A	8520	4044		110944						
Sylvan Pass	10E5*	7100	4029		110902						
Thumb Divide	10E7	7980	4022		110934						
Two Ocean Plateau	10E17A*	9160	4009		110912						
Clark's Fork											
Seacoth Lake	9E10*	9275	4047		109934						
Cooke Station m	9E7	8150	19	9S							
Evangel Station	9E11*	8150	19	9S							
Parker's Peak	9E7A*	9400	4044		109955						
White Hill m	9E8	8700	18	9S							
Wolfenine	9E8	7650	4048		109939						
Wind River											
Big Marm	9E12	8370	29	42N	108W						
Burroughs Creek	9E20	8750	33	38N	10940						
Dinosaur	9E10*	10160	33	38N	1058W						
Dahler	9E6	8760	27	42N	108W						
Geyer Creek	9E7	8500	6	41N	107W						
Little Marm	9E4	8770	23	41N	108W						
Snake River	9E4	7720	23	41N	108W						
T-Cross Ranch	9E3	7900	1	43N	107W						
Togetoe Pass	10E9*	9580	28	44N	110W						
Papo Asie River											
Blue Ridge	8E09*	8620	23	31N	101W						
Christina Lake	8E09*	9980	9	30N	101W						
Hobbs Park	9E3*	10100	22	2S	3W						
Middle Fork	8E6	7420	24	32N	101W						
South Pass	8E3	9040	13	30N	101W						
St. Lawrence R.S.	9E11*	8960	26	1N	10835						
Tomsend Creek	8E7*	8700	4241		108935						
Owl Creek											
Owl Creek	8E1*	8975	29	43N	101W						
Greybull River											
Irish Rock	9E14*	9800	10	47N	104W						
Kirwin	9E24*	9800	15	45N	104W						
Tanner Creek	9E3P	7550	23	47N	103W						
Shoshone River											
Blackwater	9E13*	9780	19	51N	107W						
Marble Mountain	9E4P	9780	19	51N	107W						
Marble Mountain	9E4P	6960	16	50N	11020						
Marquette Creek	9E9	6760	4029		110900						
Sylvan Pass	10E5*	7100	4029		110902						
Trouer Creek	9E12	8400	12	53N	105W						
Young's Peak	9E18A*	5350	4356		109949						
Newood Creek											
Bear Trap	7E1A*	7900	3	45N	85W						
Lost Creek	7E03*	7950	4391		107915						
Lost Creek	7E03*	7950	4391		107915						
Middle Powder	7E2	7750	9	42N	86W						
Newood	7E04*	8600	4027		107921						
Onion Gulch	7E27P	8780	31	48N	85W						
Powder River Pass	7E04*	8800	6	48N	85W						
Tyreill R.S.	7E35	8350	30	43N	90W						
Shell Creek											
84d Mountain	7E21*	9380	29	56N	91W						
84d Mountain	7E21*	9380	29	56N	91W						
Beaver Creek Divide	7E4	8120	30	53N	88W34						
Shell Creek	7E23*	9580	4030		107926						
Porcupine Creek											
Five Springs Falls	7E31	7620	20	56N	92W						
Tongue River											
81g Goose	7E32	7760	4	53N	86W						
Bent Spring Divide	7E33*	7880	34	56N	107934						
Donne Lake	7E34*	8870	4035		107918						
Geneva Pass	7E37A	9400	4029		107917						
North Tongue	7E15	8450	8	55N	89W						
Sawmill Divide	7E38	5200	4438		107923						
Green River below Green River											
Big Park	10C11	9620	2	27N	117W						
Burr-Willer Ranch u	1036	7900	19	10E	9E						
Hayden Fork u	1017	8180	1	26N	118W						
Kelley R.S.	11H12	8550	4053		110941						
Mario Critto R.S. u	10182	8500	4053		110954						
Salt River Summit	10G8*	7700	42931		110954						
South Thomas Fork	10G19	7840	27	27N	119W						
Trial Lake u	10I8P	9800	5	2S	9E						
Bear River											
Beaver Canyon	10G19	8250	28	43N	118W						
Indian Meadows	10G25	8240	33	46N	117W						
Indian Meadows	10G26	7350	15	46N	118W						
Wiles Creek	10G27	7760	44N	44N	118W						
Recon W.S.	10G24	7740	4390		110959						
Jockson Lake to Polisades											
Afton R.S.	10G64	6240	42944		110956						
Blackrock	10G7	8900	43977		110908						
Blind Bull Summit	10G4*	6550	42957		110908						
CCC Camp	10G7	7000	42931		110953						
Cottonwood Lake	10G5*	7600	42930		110949						
East Rim Divide	10I77P	7930	32	37N	111W						
Elbo Ranch	10G28	7860	3S	45N	112W						
Elbo Ranch Meadows	10G28	7860	3S	45N	112W						
Grey's Boundary	10F18	5720	33	37N	118W						
Gros Ventre	10G19*	8750	36	40N	113W						
Grover Park Divide	10G3P	7000	42948		110955						
Phillips Ranch	10G23*	8200	43931		110955						
Poison Meadows	10G6*	8500	42933		110941						
Salt River Summit	10G8*	7700	42931		110954						
Snow King Mountain	10G20	9680	2	40N	106W						
Turpin Meadows	10G5	6900	14	45N	112W						
Young's Ranch	10G1A	6650	42959		110943						
Colorado River below Green River											
81g Sandy Opening	10G2*	8650	42957		110936						
81d Bull Summit	10I77P	7930	32	37N	111W						
East Rim Divide	10G28	7860	3S	45N	112W						
Fontenelle	10G22*	7960	34	30N	116S						
Gros Ventre	10F19*	8750	36	40N	111W						
Kendall R.S.	10F15	7740	23	38N	110W						
Loomis Park	10F16*	8440	14	36N	111W						
Pocket Creek	9E11	9350	42942		109925						
Poison Meadows	10G5	8500	42933		110941						
Roady Creek	10G21	8300	42956		110932						
Salt River Divide	10G19	7840	27	27N	119W						
Triple Peaks	10G15	9000	42946		110935						
Colorado River below Green River											
81g Sandy Opening	10G2*	8650	42957		110936						
81d Bull Summit	10I77P	7930	32	37N	111W						
East Rim Divide	10G28	7860	3S	45N	112W						
Fontenelle	10G22*	7960	34	30N	116S						
Gros Ventre	10F19*	8750	36	40N	111W						
Kendall R.S.	10F15	7740	23	38N	110W						
Loomis Park	10F16*	8440	14	36N	111W						
Pocket Creek	9E11	9350	42942		109925						
Poison Meadows	10G5	8500	42933		110941						
Roady Creek	10G21	8300	42956		110932						
Salt River Divide	10G19	7840	27	27N	119W						
Triple Peaks	10G15	9000	42946		110935						
Colorado River below Green River											
81g Sandy Opening	10G2*	8650	42957		110936						
81d Bull Summit	10I77P	7930	32	37N	111W						
East Rim Divide	10G28	7860	3S	45N	112W						
Fontenelle	10G22*	7960	34	30N	116S						
Gros Ventre	10F19*	8750	36	40N	111W						
Kendall R.S.	10F15	7740	23	38N	110W						
Loomis Park	10F16*	8440	14	36N	111W						
Pocket Creek	9E11	9350	42942		109925						
Poison Meadows	10G5	8500	42933		110941						
Roady Creek	10G21	8300	42956		110932						
Salt River Divide	10G19	7840	27	27N	119W						
Triple Peaks	10G15	9000	42946		110935						
Colorado River below Green River											
81g Sandy Opening	10G2*	8650	42957		110936						
81d Bull Summit	10I77P	7930	32	37N	111W						
East Rim Divide	10G28	7860	3S	45N	112W						
Fontenelle	10G22*	7960	34	30N	116S						
Gros Ventre	10F19*	8750	36	40N	111W						
Kendall R.S.	10F15	7740	23	38N	110W						
Loomis Park	10F16*	8440	14	36N	111W						
Pocket Creek	9E11	9350	42942		109925						
Poison Meadows	10G5	8500	42933		110941						
Roady Creek	10G21	8300	42956		110932						
Salt River Divide	10G19	7840	27	27N	119W						
Triple Peaks	10G15	9000	42946		110935						
Colorado River below Green River											
81g Sandy Opening	10G2*	8650	42957		110936						
81d Bull Summit	10I77P	7930	32	37N	111W						
East Rim Divide	10G28	7860	3S	45N	112W						
Fontenelle	10G22*										

- 2. Colorado snow courses
- 3. Montana snow courses
- 4. South Dakota snow courses
- 5. Utah snow courses
- 6. Aerial Snow Depth Gauge
- 7. Pearson Storage Gauge
- 8. Snow Pillow

* SNOTEL site consisting of a snow depth gauge, and temperature and humidity sensors.

THE FOLLOWING ORGANIZATIONS COOPERATE IN THE WYOMING SNOW SURVEY WORK

STATE

Conservation Districts of Wyoming
State Engineer of Wyoming
Irrigation Districts of Wyoming
University of Wyoming
Department of Atmospheric Resources
Department of Agricultural Engineering

FEDERAL

U. S. Department of Agriculture
Soil Conservation Service
Forest Service

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service
Bureau of Indian Affairs

PRIVATE

Teton Environmental School
Utah Power and Light Company

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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SOIL CONSERVATION SERVICE

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*"The Conservation of Water begins
with the Snow Survey"*